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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/661,262	09/13/2000	Eiji Teraue	Q60758	8335
7590 · 05/21/2004 SUGHRUE MION ZINN MACPEAK & SEAS PLLC			EXAMINER	
			STEPHANY, TIMOTHY J	
2100 Pennsylvania Avenue NW Washington, DC 20037-3202		ART UNIT	PAPER NUMBER	
5 ,		2622	\ .	
			DATE MAILED: 05/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)		
	09/661,262	TERAUE, EIJI		
Office Action Summary	Examiner	Art Unit		
	Timothy J. Stephany	2622		
The MAILING DATE of this communication ap		1		
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repuly 15 NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be to only within the statutory minimum of thirty (30) da I will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 13.5	September 2000.			
	is action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) ☐ Claim(s) 1-9 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examir 10) ☐ The drawing(s) filed on is/are: a) ☐ according and according any not request that any objection to the Replacement drawing sheet(s) including the correct	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is continuous.	See 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	nts have been received. nts have been received in Applicationity documents have been received in Rule 17.2(a)).	ation No ived in this National Stage		
Attachment(s)	A []	201 (PTO-413)		
 Notice of References Cited (PTO-892) Dotice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date 3/9-13-00. 	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	ary (PTO-413) Date al Patent Application (PTO-152)		

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Should applicant desire to obtain the benefit of foreign priority under 35 U.S.C. 119(a)-(d) prior to declaration of an interference, a translation of the foreign application should be submitted under 37 CFR 1.55 in reply to this action.

Specification

The disclosure is objected to because of the following informalities:

On page 2, line 20: grammatical error, "the proof image coincides" should read "the proof image that coincides".

On page 3, line 9: grammatical error, "Here, a printing" should read "Here, printing".

On page 3, line 23: typographical error, "three colors of RGB" should read "three colors of RGB".

On page 4, line 7: misspelled word, "rear that" should read "rare that".

On page 4, line 18: typographical error, "(coordinates" should read "(coordinate".

On page 6, lines 11-12: confused rendering, "for example, such a system that usually, a proof image is displayed" must be rendered to convey the meaning properly in English.

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On page 6, line 27: confused rendering, "includes a greatly large scale LUT" should read "includes an extremely large LUT".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirokazu ('392) in view of Laumeyer ('577).

Regarding claims 1 and 2, Hirokazu discloses a method and apparatus for color correction, whereby the initial colors emerging from the color separator (18 in Figure 1, and paragraph 0021) that are CMYK (first color space) are split and through the "printing profile" (26 in Figure 1 and paragraph 0022) emerge in a device independent color space CIEXYZ, and then through a "printer profile" (proof condition conversion step) emerge again in RGB (second color space) where they are then sent to the printer (proofer) (figure 1 and paragraphs 0024-0025).

Hirokazu does not disclose expressly that there is a spot color reference step whereby a spot color name is converted into the device-independent space and that there is a composition step in which the process color and the spot color are

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synthesized in either the device-independent space or the second color space and output in the second color space.

Laumeyer discloses that a Pantone color (considered a spot color) can be transformed through a look-up table (LUT) or mapping through a color space into CMYK (col. 1, lines 66-67 and col. 2, lines 1-2). This suggests mapping of a spot color into a color space that is device independent and then into a second color space, where it can then be combined with other CMYK data. In this case, any color space can be converted into any other color space, where it would be both obvious to do this through a device-independent space and that the data represented in the same color space is combinable for output to an output device (by the nature of an output device such date must be combined in order to be output).

Hirokazu & Laumeyer are combinable because they are from the same field of endeavor and thus constitute analogous art, being that of printer color processing.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to process a spot color and process color from a first color space through an independent color space to a second color space, where these data will be combined and sent to a printer, including all embodiments that arise from a simple reordering or combination of steps, or removal of certain steps, whereby the calculations and the output are the same and act in the same manner.

The suggestion/motivation for doing so would have been that a printing apparatus that uses CMYK for printing can also and is used with systems that renders an image with a printer that suggests the use of the use of spot colors.

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Therefore, it would have been obvious to combine Hirokazu with Laumeyer to obtain the invention as specified in claims 1 and 2.

Regarding **claim 3**, the recitation of a method that converts from a first color space into a device-independent color space and then into a second color space as set forward in claim 1 has been discussed above. Combining the steps of conversion from the colorimetric space into a second color space in the synthesizing step is a design choice that would have been obvious to a person skilled in the art and thus is rejected under the same justification as for claim 1.

Regarding **claim 4**, the recitation of a method that converts from a first color space into a device-independent color space and then into a second color space as set forward in claim 2 has been discussed above. Combining the steps of conversion from the colorimetric space into a second color space is a design choice that would have been obvious to a person skilled in the art and thus is rejected under the same justification as for claim 2.

Regarding **claims 5 and 6**, the recitation of an apparatus that converts from a first color space into a device-independent color space and then into a second color space as set forward in claim 1 has been discussed above.

The use of coordinate conversion definition (LUT's) is disclosed in Hirokazu (21-24 and 31-33 in Figure 1 and paragraphs 0022-0023) and an LUT is equivalent to ROM

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and thus is a memory (storage section) so that to accomplish this would have been obvious to a person skilled in the art and thus is rejected under the same justification as for claim 1.

Regarding **claim 7**, the recitation of a apparatus that converts from a first color space into a device-independent color space and then into a second color space as set forward in claim 5 has been discussed above. Reordering the steps of conversion by combining after converting into the colorimetric space but before converting to the second color space is a design choice that would have been obvious to a person skilled in the art and thus is rejected under the same justification as for claim 5.

Regarding **claim 8**, the recitation of a apparatus that converts from a first color space into a device-independent color space and then into a second color space as set forward in claim 5 has been discussed above. Combining the steps of conversion from the first to the second color space for the process color and performing the steps of conversion of the spot color from the first color space into a device-independent color space and then into the second color space is a design choice that would have been obvious to a person skilled in the art and thus is rejected under the same justification as for claim 5.

Regarding **claim 9**, the means of accomplishing the method or apparatus is implied within it. If a small number of potential embodiments come to them mind of one skilled

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in the art such that it would have been obvious to apply them as a means, in this case, the use of a storage medium, then the reference anticipates the claim, and thus is rejected under the same justification as claim 1.

Additional Notes

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ringness ('395), Nishikawa ('427), Azima ('676), Reed ('653) refer to color conversion of spot colors; Tolmer ('975), Maltz ('849), Viturro ('244), McCann ('089) refer to spot colors; Wu ('202), Kawai ('060) refer to color separation and processing; Jodra (US 2002/0149644 A1), Iwasaki (US 2003/0043393 A1), Dewitte (US 2002/0008880 A1) refer to spot color proofing.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Stephany whose telephone number is 703-305-8951. The examiner can normally be reached on 8:30 am - 4:30 pm ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 703-305-4712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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